

Mark Santa Clara Munro

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EDUCATION

Clarkson University, Potsdam, NY

Bachelor of Science, double major in Mathematics and Computer Science, Honors Program May 2027

Honors: Ignite Presidential Fellow, Presidential Scholar (Fall 2023)

GPA: 4.0

Hoosac School, Hoosick, NY June 2023

ACADEMIC EXPERIENCE

Impact of changing Antarctic ice cover on solar heat absorption, "Calculus II", Clarkson November 2023

- Computed ice extent from real-world data, analyzed statistical data, estimated difference in energy absorption (using numerical integration), and co-authored a paper presenting the results.

Gödel's Incompleteness Theorems, "Linear Algebra", Hoosac School May 2023

- Researched Mathematical Logic foundations, created an individual project, made a presentation.

Rocket Group Project, "AP Physics", Hoosac School March 2022

- Calculated costs and effectiveness of materials (engines, coupling separators), distance to orbit, etc.

Introduction to Computer Science and Programming Using Python, MITx on edX July – August 2022

WORK & VOLUNTEER EXPERIENCE

Math Peer Tutor, Hoosac School September 2021 – May 2023

- Ran Math Help Center (calculus, precalculus) for student-athletes at International Sport Academy.

SATs Peer Tutor September 2020 – August 2022

- Assisted students in SAT preparation by providing guidance on test-taking strategies, reviewing key concepts, and offering personalized support to enhance their performance.

Volunteer at Emmen Refugee Center, SIW Internationale Vrijwilligersprojecten August 2022

- Organized activities for and with the children (4-12 years old) at AZC Emmen, a refugee center managed by the Central Agency for the Reception of Asylum Seekers (COA), Netherlands.

Intern, Laboratory of Instrumentation and Experimental Particles Physics July 2022

- Engaged in diverse tasks within particle physics, including literature research, laboratory data collection, simple calculations, complex analysis programs, and communicating research findings.

EXTRACURRICULARS

Clarkson Open Source Institute (COSI), Clarkson University September 2023 – Present

Basketball Player

- Golden Knights Basketball Team, Clarkson University August 2023 – Present
- International Sport Academy / Hoosac School September 2021 – June 2023
Captain & MVP of the A team in 2021/22; player in the AA team in 2022/23.
- MVP Academy / Rio Maior Basket September 2019 – August 2021
Played in U16, U18, U21 and Men's Division 2 teams. Captain of U16 in 2019/20 and U18 in 2020/21.

Violin Player at Orchestra "Os Violinhos", Academia de Música de Lisboa September 2015 – August 2019

- Played in major venues in Portugal, 10-15 concerts per year, numerous workshops, 2 European Tours (Italy, Croatia, Slovenia, Hungary, Czechia, Slovakia).

SKILLS

C++, Python, Matlab, English and Portuguese (native proficiency), Spanish (professional working proficiency), teamwork, tutoring.